

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Martha Allman

GENERAL INFORMATION:

Name:	Statewide Environmental Services, Inc.
Address:	356 West Main St., Lebanon, KY 40033
Date application received:	April 8, 2005
SIC/Source description:	4959/Soil Remediation
Source ID #:	21-217-00030
Source A.I. #:	4010
Activity #:	APE20060001
Permit number:	F-06-026

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	0.78	9.17
SO ₂	1.08	14.23
NO _x	0.076	4.01
CO	0.019	1.00
VOC	1.11	22.43
Single HAPs	0.0016	3.64
Source wide HAPs	1.11	22.43

Note: Actual emissions from 2005 Emissions Survey

SOURCE DESCRIPTION:

Statewide Environmental Services, Inc. (SWES) submitted an application on June 29, 2001 and a revised application on August 11, 2004 for their source wide permit. Supplementary information was received on March 11, 2005 and April 8, 2006, in response to notices of deficiencies issued on September 13, 2004, February 22, 2005 and March 13, 2006. With respect to previous permitting actions, a construction permit was issued on November 4, 1993. On June 2, 1995, the Division issued a letter acknowledging successful completion of compliance demonstration, acknowledging receipt of a complete application, and indicating that a permit would be forthcoming. No records of that permit exist. Another letter was issued dated December 9, 1996 approving coverage under 401 KAR 50:031. By letter dated March 19, 2001, the Division advised all 401 KAR 50:031 sources to file a Title V permit application by June 30, 2001. That requirement was met by the June 29, 2001 submittal. An additional revised application was received on April 8, 2005.

SWES, Inc. provides Low Temperature Thermal Desorption services¹ that uses heat to separate petroleum hydrocarbons from excavated soils. Petroleum contaminated soil is placed into a screened-hopper feed system and transferred by conveyor into a rotary kiln. The heat source to the kiln is a 51 mmBtu burner burning No. 2 low-sulfur diesel fuel. Exhaust gases from the kiln range from 275 °F- 600 °F to ensure evaporation of moisture and volatile contaminants in the soil. The soil exits the kiln to either a storage site or directly into a truck for transport to a fill area. The exhaust gases from the kiln are drawn into a baghouse for particulate control.

EMISSIONS AND OPERATING CAPS DESCRIPTION:

Pursuant to 401 KAR 63:021, which adopted source wide limits established by 401 KAR 63:022, soil concentrations and emission rates shall not exceed the following limits for each compound:

Compound	Soil Concentration (ppmw)	Emission Rate (lb/hr.)
Benzene	37.4	3.74
Toluene	57.1	5.71
Xylene	66.3	6.63
Ethyl benzene	66.3	6.63
Lead	831	.00187

The maximum soil processing rate shall not exceed 50 tons/hour and the maximum amount of soil processed shall

¹ Also known as low-temperature thermal volatilization, thermal stripping, and soil roasting.

not exceed 55,000 tons in any 12 consecutive months.

OPERATIONAL FLEXIBILITY:

None.